

## CURRICULUM VITAE

**DATE:** 12-19-25

**NAME:** Judith Erica Deutsch, P.T., Ph.D. FAPTA

**PRESENT TITLE:** Professor of Rehabilitation and Movement Sciences

**OFFICE ADDRESS:** Rutgers Health  
Department of Rehabilitation and Movement Sciences  
Doctoral Program in Physical Therapy  
65 Bergen Street, SSB GB16  
Newark, New Jersey 07101

**TELEPHONE NUMBER/EMAIL ADDRESS** 973 972-2373 / deutsch@shp.rutgers.edu

**CITIZENSHIP** United States

### EDUCATION:

A. Undergraduate

*Stanford University  
Palo Alto, California  
B.A. Human Biology May 1982*

B. Graduate Professional

*University of Southern California  
Los Angeles, California  
M.S Physical Therapy May 1985*

C. Graduate

*New York University  
New York, New York  
Ph.D. Pathokinesiology May 1995*

### POST DOCTORAL TRAINING

A. *Post Doctoral Appointment:*

*NIDRR Advanced Training in Multidisciplinary Rehabilitation Research Fellow  
Kessler Institute for Rehabilitation, West Orange, New Jersey  
Sept 1995-August 1996*

### EMPLOYMENT WORK EXPERIENCE:

*March 2024*

*Visiting Professor*

*Program in Physical Therapy. University of Sao Paolo- Brazil*

*May 2019, May 2023*

*Visiting Professor*

*Program In Physical Therapy, University of Ljubjana, Slovenia*

*September 2002-June 31 2013 in 2013 we became Rutgers University  
Director*

*Research in Virtual Environments and Rehabilitation Sciences (RiVERS) Lab  
Department of Rehabilitation and Movement Sciences \_UMDNJ, Newark, NJ*

*September 1, 2011-2016  
Co-Chair PTNow (Knowledge Translation Initiative)  
American Physical Therapy Association, Alexandria, VA.*

*July 2007-July 2012  
Track Coordinator  
PhD in Health Sciences Rehabilitation & Movement Sciences Track  
Newark, NJ*

*Sept 1998- June 2000  
Director Graduate Studies in Movement Science  
University of Medicine and Dentistry of New Jersey  
School of Health Related Professions and Seton Hall University, South Orange, NJ*

*1998 (1 month over three visits)  
Visiting Professor  
University of Versailles, France*

*Sept 1992- August 1993  
NIH Pre-Doctoral Fellow  
Pulmonary Function Laboratory, New York University Medical Center*

*Sept 1990-August 1992  
NIDRR Research Trainee  
Pain Lab, New York University Medical Center. Pain Research: Dr. Neil Spielholz  
OIOC, Hospital for Joint Diseases Biomechanics: Dr. Mohammed Parnianpour*

*Kessler Institute for Rehabilitation, East Orange, New Jersey  
Clinical (Motor Control) Specialist  
January 1990- August 31, 1990*

*Senior (Neurology) Physical Therapist  
January 1989-December 1989*

*Staff Physical Therapist  
February 1986-December 1988*

**ACADEMIC APPOINTMENTS:**

*Department of Rehabilitation and Movement Sciences (Program in Physical Therapy)  
Rutgers Biomedical and Health Sciences - School of Health Professions  
Professor  
July 1 2013- present*

*Graduate School of Biomedical Sciences, Rutgers Biomedical Sciences-  
Professor  
July 1 2013-present*

*UMDNJ-Graduate School of Biomedical Sciences  
Professor  
September 2012-June 30 2013*

*Department of Rehabilitation and Movement Sciences (Program in Physical Therapy)  
University of Medicine and Dentistry of New Jersey - School of Health Professions  
Professor*

*June 2006-June 2013*  
*Associate Professor*  
*June 1999- May 2005*  
*Assistant Professor*  
*Sept 1995- May 1999*  
*Clinical Assistant Professor*  
*Sept 1990- August 1994*

*Program in Physical Therapy*  
*New York University-School of Education*  
*Adjunct Assistant Professor*  
*Sept 1992-May 1994*

**LICENSURE:** N. J. State Board of Physical Therapy #QA 030606  
New York #011978-1 (not current)

### **HONORS and AWARDS**

*Service Award- International Neurologic Physiotherapy Association May 2025*

*Service-Career Award- recognizing service, scholarship and mentorship July 2024*  
*International Society for Virtual Rehabilitation*

*Mary McMillan Lecture Award- 2023(presented in 2024)*  
*American Physical Therapy Association*

*Technology Innovator Award- 2022*  
*Health Policy and Administration Section- APTA*

*RBHS Chancellor – Distinguished Mentor Award -2021*  
*RBHS Rutgers University*

*Distinguished Alumni Award (Post-Doctoral Fellow)- 2020*  
*Rutgers Department of PMR and Kessler Institute of Rehabilitation*

*Excellence in Research Award- 2013*  
*Neurology Section APTA*

*Catharine Worthingham Fellow FAPTA of the American Physical Therapy Association*  
*June 2012*

*American Publishers Nursing and Allied Health Award 2008*  
*Professional and Scholarly Division of Association of American Publishers*

*Lucy Blair Service Award -2008*  
*American Physical Therapy Association*

*Distinguished Alumni of the Year- 2007*  
*Department of Biokinesiology, University of Southern California*

*Jack Walker Award for Best Clinical Paper- 2007*  
*Physical Therapy Journal, American Physical Therapy Association*

*Service Award- 2006*

*Neurology Section APTA*

*Master Educator Guild- 2004  
University of Medicine and Dentistry*

*Excellence in Teaching Award- 2003  
University of Medicine and Dentistry*

*Dean's Excellence in Research Award- 2001  
University of Medicine and Dentistry*

*Outstanding Service Award- 2000  
New Jersey American Physical Therapy Association*

*Academic Award (Grant Recipient)  
Clinical Research Traineeship 9/91 - 8/92  
New York University/United States Department of Education/NIDRR*

*Research Award (Grant Recipient)  
NIH Pre - doctoral Fellowship 9/92 - 9/93  
New York University Medical Center  
Rusk Institute for Rehabilitation*

#### **MEMBERSHIPS, OFFICES & COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES (Selected)**

2025- Chair- Program Committee World Physiotherapy Congress 2027  
2019-2025 President\_INPA-WPT  
2013-2016 Founding Member: FIRST\_APTA (Technology Innovation)  
2011-present Member International Consortium on Upper Limb Clinical Decision-Making Group (Via Therapy)  
2011-present Founding Member International Neurologic Physical Therapy Association (INPA)  
World Congress Physical Therapy (WCPT)  
2007-2010 Founding Member ISPJE\_WCPT  
1996- 1997 Chair: Committee on Curricular Recommendations on the Task Force Studying the Application of Theory to Practice for the Neurology Section of the APTA

#### **BOARD OF DIRECTORS/TRUSTEES POSITIONS**

2011-2016 Co\_Chair PTNow.org APTA  
2009-2011 Board Members: American Society of Neuro Rehabilitation (ASNR)  
1999-2009 Board Member: Neurology Section APTA

#### **SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES**

2021-present Reviewer Wellcome Trust DBT IASP  
2012-present Ad Hoc Reviewer NINDS  
2011-present Ad Hoc Reviewer: NICHD  
2020-present Ad Hoc Reviewer NCCIH  
2011-2011 Participant: Research Capacity Building Summit\_ NIDRR  
2010-2010 Ad Hoc Reviewer: NIDDK

## **SERVICE ON JOURNALS/PUBLICATIONS**

### **A. Editorial Boards**

IEEE Open Access Journal of Engineering in Medicine and Biology (Advisory board) (2019-present)  
Games for Health (2011(since inception)-present)  
Neural Rehabilitation and Neural Repair (2010-2014)  
Journal of Neuro Engineering and Rehabilitation (2006-present)  
Journal of Neurologic Physical Therapy (2002-2009 Editor-in-Chief)  
Neurology Report (1999-2002 Editor-in-Chief)

### **B. Peer Reviewer (*selected*)**

Lancet (2024-  
JOVE (2022-present)  
Journal of Rehabilitation Medicine (2019-present)  
Journal of Medical Internet Research (J of Personalized Medicine) (2019-present)  
Journal of Medical Internet Research (Serious games) (2018-present)  
Frontiers in Neuroscience (2018- present)  
Plos One (2016-present)  
Journal of Medical Internet Research (2014-present)  
Journal of Motor Behavior (2014-present)  
American Journal of Physical Medicine and Rehabilitation (2012-present)  
Physiotherapy (2012-present)  
Experimental Brain Research (2010-present)  
Gait and Posture (2010-present)  
Journal of Rehabilitation and Research Development (2009-present)  
Virtual Rehabilitation (2009-present)  
Archives of Physical Medicine and Rehabilitation (2007-present)  
Neural Rehabilitation and Neural Repair (2007-present)  
Transactions in Neurorehabilitation Research (2006-present)  
Physical Therapy (2005-present)  
Presence (2003-present)  
Neurology Report (1996-1999)  
Lippincott Publisher (1996-2000)  
Physical Therapy Journal (1995-present)

## **SERVICE ON INSITUTIONAL COMMITTEES: SERVICE ON SCHOOL COMMMITTEES (*selected*)**

2019-present Committee on Appointments and Promotions *SHP*  
2015-present Deans Research Advisory Council *SHP*  
2019- 2023 Co-Chair Membership and Public Relations Committee *RBHS Faculty Council*  
2019-2022 Member *SHP Bylaws* Implementation Task Force  
2017-2019 Chair *SHP Bylaws* Task Force renamed *Bylaws Implementation Task Force*  
2016-2017 Co-Chair Scholarship Strategic Planning Committee *SHP, Rutgers*  
2014-2018 Faculty Chair: *SHP, Rutgers*  
2014-2018 Member: Executive Council *SHP, Rutgers*  
2014-2018 Ex-Officio Member: Committee on Committees

2014-2016 Member: MEG Induction Committee Master Educator Guild *RBHS\_Rutgers*  
 2013-2016 Public Relations Committee Master Educator Guild *RBHS\_Rutgers*  
 2008-2009 Member Committee on Appointments and Promotions-UMDNJ-SHRP  
 2007-2008 Chair Committee on Appointments and Promotions-UMDNJ\_SHRP  
 2006-2011 Member Intellectual Property Committee UMDNJ  
 2005-? Member Master Educator Guild  
 2005- 2005 Member: Dean Decanal Review Committee- UMDNJ-SHRP  
 2004-2009 Member: Committee on Appointments and Promotions UMDNJ-SHRP  
 2002- 2005 Member: Executive Council- UMDNJ-SHRP  
 2001- 2003 Member: Intellectual Property Committee- UMDNJ  
 1999-2009 Member: Center for the Study of Complementary and Alternative Medicine-UMDNJ  
 1997- 2013 Ombudsperson for Research: UMDNJ-SHRP  
 1996- 1998 Chair: Committee on Research and Institutional Review (CRIR) UMDNJ-SHRP  
 1994-1996 Adhoc Committee on Multiculturalism-University of Medicine and Dentistry of New Jersey

**SERVICE ON DEPARTMENT/PROGRAM COMMITTEE**

2023- Member PR Committee  
 2020- 2021 Member: CE1 Course Committee  
 2018-2025 Chair: Department Awards Committee  
 2016-2018 Chair: Program Awards Committee  
 2015-2017 Member: Search Committee  
 2015-2017 Member: Strategic Planning Committee Sub-Group  
 2011-2020 Member: PhD Program Committee  
 2011-2020 Member: PhD Admissions Committee  
 2011-2012 Member: internal Committee on Appointments and Promotions (iCAP)  
 2006-present Chair: Ellen Ross Memorial Lecture Committee  
 2006-present Chair: Ellen Ross Memorial Scholarship Committee  
 2000-2016 Member: Program Awards Committee  
 1999- 2000 Chair: Curriculum Committee: Graduate Program in Health Sciences UMDNJ-Seton Hall  
 1998- 2000 Member: Admissions Committee: Graduate Program in Health Sciences UMDNJ-Seton Hall  
 1994- 1995 Chair Physical Therapy Department Search Committee  
 1993- 1999 Member: Committee on Research and Institutional Review UMDNJ-SHRP  
 1993-1995 Admissions Committee: Program in Physical Therapy: UMDNJ-SHRP

**SERVICE TO THE COMMUNITY (selected)**

2018- present Faculty Advisor Synergy- Exercise Group of the Community Participatory Clinic *SHP Rutgers*

Volunteer Special Olympics 2007 to present (alternate years)

“Virtual Reality and Gaming Applied to Pediatrics” Chicago, April 2010

“Virtual Reality for Rehabilitation of Walking for Individuals Post-Stroke” New Jersey Stroke Network, Oct. 2002 \*

“Motor Imagery and Patients Post-Stroke” Middlesex Stroke Support Group at JFK Medical Center, Dec. 1999 \*

1995 - 2004 Trustee Patronato Ruth Lechuga de Artes Populares, Mexico City, Mexico

## **SPONSORSHIP OF STUDENTS FOR GRADUATE RESEARCH**

### **Research Mentor (Funded through the UMDNJ Foundation or the Program in Physical Therapy)**

- Research Mentor: Cara Talty, UMDNJ- Volunteer Internship: 1996: Use of Structural Integration for Individuals with Fibromyalgia and Chronic Fatigue Syndrome.
- Research Mentor: Rajan Murthy, UMDNJ Foundation Summer Research Program 1996 Mental Practice Improves Motor Performance and Functional Imaging and Behavioral Study
- Research Mentor: Jeff Fitzgerald, UMDNJ Foundation Summer Research Program 1997: Kinematics of Upper Extremity Movements
- Research Mentor: Lori Derr, UMDNJ Foundation Summer Research Program, 1998: Use of Structural Integration for Patients with Chronic Pain.
- Research Mentor: Michael Fisher, UMDNJ Foundation Summer Research Program, 1998, Mental Practice Improves Motor Performance and Functional Imaging and Behavioral Study
- Research Mentor: Marc Riccardi, UMDNJ Foundation Summer Research Program, 1999, Mental Practice Improves Motor Performance and Functional Imaging and Behavioral Study
- Research Mentor: John Moore, UMDNJ Foundation Summer Research Program, 2000, Motor Imagery Ability of Patients Post-Stroke: Functional Imaging and Behavioral Study
- Research Mentor: Magda Karasewicz, UMDNJ Foundation Summer Research Program, 2001, Motor Imagery Ability of Patients Post-Stroke: Functional Imaging and Behavioral Study
- Research Mentor: Christina Hong UMDNJ Foundation Summer Research Program, 2002, Motor Imagery Ability of Patients Post-Stroke: Functional Imaging and Behavioral Study
- Research Mentor: Christopher Veccione: Program in Physical Therapy Research Award, 2002, Use of Virtual Reality for Rehabilitation of Individuals Post-Stroke.
- Research Mentor: Chris Passerchia UMDNJ Foundation Summer Research Program 2003, Use of Virtual Reality for Rehabilitation of Individuals Post-Stroke.
- Research Mentor: Stephen Fischer: UMDNJ Foundation Summer Research Program, 2004, Motor Imagery Ability of Patients Post-Stroke: Functional Imaging and Behavioral Study
- Research Mentor: Carrie: Program in Physical Therapy Research Award, 2004, Motor Imagery Ability of Patients Post-Stroke: Functional Imaging and Behavioral Study
- Research Mentor: Matthew Lanin, Program in Physical Therapy Research Award, 2005, Use of Virtual Reality for Rehabilitation of Individuals Post-Stroke.

Research Mentor: Dana Breninger, UMDNJ Foundation Summer Research Program, 2005, Use of Virtual Reality for Rehabilitation of Individuals Post-Stroke.

Research Mentor Andrea Minsky UMDNJ Foundation Summer Research Program, 2006, Characterization and Validation of Mobility Simulator Post-Stroke

Research Mentor Geno Mayes, UMDNJ Foundation Summer Research Program, 2007, Validation of the Postural Scale Analyzer

Research Mentor Jenny Filler, UMDNJ Foundation Summer Research Program, 2008, Use of Wii for Balance and Mobility for Persons with CP

Research Mentor Meg Borberly, Program in Physical Therapy Summer Research, Use of Wii for Balance and Mobility for Persons with CP

Research Mentor Julia Morrison , UMDNJ Foundation Summer Research Program, 2008 Use of Wii for Balance and Mobility for Individuals Post Stroke.

Research Mentor Jaroslaw Moczneuk Program in Physical Therapy Summer Research, 2008 Use of Wii for Balance and Mobility for Individuals Post Stroke.

Research Mentor Danielle Robbins, Program in Physical Therapy Summer Research, 2008 Use of Wii for Balance and Mobility for Individuals Post Stroke.

Research Mentor Caroline Smith, Program in Physical Therapy Summer Research, 2009 Use of Wii for Balance and Mobility for Individuals Post Stroke.

Research Mentor Jamie Welsh, Program in Physical Therapy Summer Research, 2009 Use of Wii for Balance and Mobility for Individuals Post Stroke.

Research Mentor Roshan John, Program in Physical Therapy Summer Research, 2009 Use of Wii for Balance and Mobility for Individuals Post Stroke.

Research Mentor Mark Pedromo, Program in Physical Therapy Summer Research, 2009 Virtual Reality Augmented Cycling Kit for Individuals Post Stroke.

Research Mentor Arielle Brettler, Program in Physical Therapy Summer Research, 2009 Use of Wii for Balance and Mobility for Individuals Post Stroke, Path Navigation

Research Mentor Lauren McMahon, Program in Physical Therapy Summer Research, 2010 Use of Wii for Balance and Mobility for Individuals Post Stroke.

Research Mentor Bryan Barker, Rutgers Foundation Summer Research Intern: Video Game Analysis and Exertion and Video Games Summer 2013

Research Mentor Andrew Grando, Rutgers Foundation Summer Research Intern: Video Game Analysis and Exertion and Video Games Summer 2013

Research Mentor Jennifer Rothman, Rutgers Foundation Summer Research Intern: Video Game Analysis and Exertion and Video Games Summer 2014

Research Mentor Kayla Critser, Rutgers Foundation Summer Research Intern: Video Game Analysis and Exertion and Video Games Summer 2015

Research Mentor	Sean Hickey Ellen Ross Memorial Research Intern: Usability of VSTEP, Summer 2016
Research Mentor	Katie Metrokakas, RU Foundation Summer Intern, Usability of VSTEP, Summer 2016
Research Mentor	Esther Kim, Ellen Ross Memorial Research Intern, Exercise Intensity and VSTEP, Summer 2016
Research Mentor	Eric Previte, RU Foundation Summer Intern, Exercise Intensity and VSTEP, Summer 2016
Research Mentor	Aurora James- Palmer, RU Foundation Summer Intern, Exercise Intensity and VSTEP, Sumer 2017
Research Mentor	Brittany Hoehlein, Marisa and Joshua Pacifico. RU Foundation Summer Interns, Summer 2018
Research Mentor	Jordan Van Epps, Kathryn Hussey, Adam Rosenblatt, RU Foundation Summer Interns, 2019
Research Mentor	Amanda Stelma, RU Foundation Summer Intern 2020
Research Mentor	Kunishima Nishimura RU Foundation Summer Intern 2021
Research Mentor	Tapan Patel RU Foundation Summer Intern 2022
Research Mentor	Priyank Patel RU Foundation Summer Intern 2023
Research Mentor	Asmaa Embaby RU Foundation Summer Intern 2024
Research Mentor	Ayesha Latif (Informatics PhD student) RU Foundation Summer Intern 2025

#### **SPONSORSHIP OF MASTER THESIS PROJECTS**

Co-Chair	Jeffrey A Lewis (Rutgers: Computer Science). Telerehabilitation and Virtual Environments for Rehabilitation Post-Stroke (2004)
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#### **DISSERTATION CHAIR COMMITTEE, MEMBER, REVIEWER**

##### **Doctoral (Current)**

Committee Member	Holly Gorin DPT-PhD
Committee Member	Roberta Oliveira Bueno de Souza University of Sao Paolo, PhD
Committee Member	Fabiana Cassales Tosi University of Sao Paolo, PhD
Committee Member	Zahava Hirsch, Stevens Institute of Technology, PhD
Committee Member	Jennifer Stokus, Seton Hall University, PhD

##### **Doctoral Student Oversight (Previous)**

Chair:	Theresa Smith (SHP_HS) Characteristics and the Relationship of Oculomotor Control, Visual Perception and Balance Abilities in Children with Cerebral Palsy. May 2025
Chair	John Palmieri (MD PhD) Competition and Cycling in VR for Young Adults, Older Adults and PwPD Spring 2023
Committee Member	Aurora James Palmer (DPT PhD) Yoga-Telehealth for PwPD and Dystonia Spring 2022
Committee Chair	Wendy Romney (RBHS_HS) KT and PT Behavior Change January 2019
Committee Member	John Carmona PhD_BME (MiTi, Madeira), June 2018
Committee Member	Ferhat Erdogan (NJIT) April 2018
Committee Chair	Rose Gallagher (RBHS- HS) Virtual Reality Augmented Cycling Oct 2017
Committee Member	Dan McEwen (University of Ottawa_Kinesiology) 2017
Committee Member	Gregory Ranky (RBHS_NJIT_BME)
Committee Member	Kevin Abbruzzee (RBHS-NJIT_BME) PhD 2016
Committee Chair	Rob Gossine (RBHS_NJIT_BME) Mobility Rehabilitation Game PhD 4-16
Committee Chair	Inbal Maidan (RBHS-HS) PT PhD 2015

Committee Chair	Chintan Patel (RBHS_GSBS_Neuroscience) Optic Flow and Cycling (MS_2014)
Committee Chair:	Cheryl Vasan (UMDNJ-Healthy Sciences) Prediction of ankle sprains in collegiate soccer players 2013
Committee Member	Richard Ranky (Northwestern University_PhD) 2012
Committee Chair:	Karen Huhn (UMDNJ-HS) Efficacy and Efficiency of Computer Simulations to Teach Clinical Reasoning 2010
Committee Member:	Charlotte Chatto, PhD Medical College of Georgia (Applied Neuroscience) Kinesthetic and Visual Imagery and Imaging. 2009
Committee Chair:	Anat Mirelman (UMDNJ-Health Sciences): LE training in virtual reality for individuals post-stroke 2007
Committee Chair:	Glenna Batson, DSc Rocky Mountain University (Physical Therapy) Use of Feldenkrais (Completed dissertation April 2006).
Committee Member:	Ayelet Dunsky (University of Haifa) Use of mental practice to improve walking ability of individuals post-stroke.
Committee Member:	Tae Ho Choi, PhD, NJIT (Electrical and Computer Engineering) 1997: Development of a Mathematical Model of Gait Dynamics
Committee Member:	Menachem Kozol, PhD, NYU (Physical Therapy) 2001: Change of Kinematic Parameters Between Self- Selected and Fast Walking Speeds of Adults with Post-Acute Hemiparesis: Magnitude and Symmetry
Committee Member:	Rares Boian PhD Rutgers (Computer Engineering) 2004: Dual Platform Virtual Reality Mobility Simulator

#### **Sponsorship of Post-Doctoral Fellows**

Mentor Michal Kafri PT PhD 2010-2013 funded by the AHA.

#### **Advanced Research Students- Mentor**

2022-	Ash Shah SDPT: VCycle Competition
2021-2022	Ava Mancini SDPT: VCycle_PD
2020-2021	Holly Gorin SDPT: Usability and Usefulness of the VSTEP Examination Suite
2019-2020	Lesley Jones PT DPT: Scoping Review on Bicycling and Parkinson Disease
2017-2018	Salma Elsayed PT DPT: Exercise Intensity Comparing Custom to Non-Custom Games for Persons Post-Stroke

#### **External Peer Reviewer for Promotions (selected)**

Leland Dibble, PhD PT University of Utah, Program in Physical Therapy, Promotion from Assistant Professor to Associate Professor on a clinical track (2002)

Mitchell Batavia, PhD PT NYU Promotion from Assistant Professor to Associate Professor with Tenure (2003)

Ann Karas Reinthal, MA, PT NCS Department of Health Sciences, Cleveland State University, Promotion from Assistant Professor to Associate Professor with Tenure (2003)

Donna Fry Welch, PhD PT University of Michigan, Program in Physical Therapy, Promotion from Assistant Professor to Associate Professor with Tenure (2003)

Vicky Mercer, PhD PT University of North Carolina Chapel Hill, Program in Physical Therapy, Promotion from Assistant Professor to Associate Professor with tenure (2004)

Patrick Sparto PhD PT, University of Pittsburgh, Program in Physical Therapy, Promotion from Assistant to Associate Professor with tenure (2005).

Lara Boyd PhD PT, University of British Columbia, for Appointment to Assistant Professor and Research Chair (2006)

David A. Brown PT PhD, Northwestern University for Promotion to Associate Professor with Tenure (2007)

Anne Kloos PT PhD, Ohio State University for Promotion to Associate Professor (2007)

Greg Marchetti, PT, PhD Duquense University for Promotion to Associate Professor with tenure (2007)

Lisa Riolo PT PhD NCS Indiana University for Promotion to Full Professor (2007)

Jeffrey Kinsella Shaw PT PhD, University of Connecticut, Promotion to Associate Professor with tenure (2007)

Carolynn Patten PT PhD, University of Florida (Gainesville), Promotion to Associate Professor with tenure (2007)

Julie Mount PT PhD Temple University, Promotion to Full Professor (2008)

Itzhak Meltzer PT PhD University of the Negev Israel, Promotion to Sr. Lecturer (2009)

Patrick Sparto PT PhD, University of Pittsburgh, Promotion to Associate Professor with tenure (2009)

Heidi Sveistrup PhD University of Ottawa, Promotion to Full Professor (2009)

George Fulk PT PhD Clarkson University Promotion to Associate Professor with tenure (2010)

Lois Hedman PT MS Northwestern University, Promotion to Associate Professor (2010)

Patricia McGinnis PT PhD, Stockton University, Promotion to Associate Professor with tenure (2010)

Scott Stackhouse PT PhD, Arcadia University, Promotion to Associate Professor with tenure (2011)

Theresa Kimberley PT PhD, University of Minnesota, Promotion to Associate Professor with tenure (2011)

Deborah Espy PT PhD, Cleveland State University, Promotion to Associate Professor with tenure (2013)

Darcy Reisman PT PhD, University of Delaware, Promotion to Associate Professor with tenure (2013)

Nancy Salbach PT PhD, University of Toronto, Promotion to Associate Professor with tenure (2013)

Martha Sliwinski PT PhD Columbia University, Promotion to Associate Professor (2014)

Catharine Lang PT PhD, Washington University, Promotion to Full Professor (2014)

Beth Fisher PT PhD NCS University of Southern California Promotion to Associate Professor (2014)

Hilary Greenberger PT PhD OCS, Ithaca College, Promotion to Associate Professor (2015)

Carolynn Patten PT PhD, University of Florida (Gainesville), Promotion to Professor (2015)

Rachel Kizony, OT PhD, University of Haifa, Promotion to Sr. Lecturer (2015)

Debbie Rand OT PhD, University of Tel Aviv, Promotion to Assistant Professor (2015)

Greg Hicks, PT PhD, University of Delaware, Promotion to Full Professor (2016)

George Fulk, PT PhD Clarkson University, Promotion to Full Professor (2017)

Jane Sullivan PT, EdD, Northwestern University, Promotion to Full Professor (2017)

Sujata Pradhan, PT PhD, University of Washington, Promotion to Associate Professor (2017)

James Cavanaugh PT PhD University of New England, Promotion to Professor (2017)

Kari Dunning PT PhD, University of Cincinnati, Promotion to Professor (2017)

Wendy Romney PT, DPT, University of Sacred Heart, Promotion to Associate Professor (2017)

Rosemary Gallagher PT, DPT, NYIT, Promotion to Associate Professor (2017)

Rebecca Martin PT, DPT, NCS. Clarkson University, Promotion to Associate Professor (2017)

Ashwini Rao, OT EdD, Columbia University, Promotion to Professor (2018)

Claire Bassile PT EdD, Columbia University, Promotion to Associate Professor (2018)

Kathryn Sibley PhD, University of Manitoba, Promotion to Associate Professor with Tenure (2018)

Margie Roos PT DPT PhD NCS U. of the Sciences, Promotion to Full Professor with Tenure (2019)

Emily Fox, PT PhD, University of Florida, Promotion to Associate Professor with Tenure (2019)

Ann Rheinthal PT PhD, Cleveland State University College Sciences and Health Professions, Promotion to Professor (2019)

Lois Hedman, PT DSc NCS Promotion to Professor, Northwestern University, Promotion to Professor (2019)

Jill Stewart PT PhD, University of South Carolina, Promotion to Associate Professor with Tenure (2019)

Itzhak Meltzer PT PhD, University of Ben Gurion of the Negev, Promotion to Professor (2020)

Alham Jihad Ali Al-Sharman PT PhD Faculty of Applied Medicine, Jordan University of Science and Technology, Promotion to Associate Professor (2020)

Sandy Billinger PT PhD University of Kansas. Promotion to Full Professor (2020)

Leanne Hassett PT PhD University of Sydney Promotion to Associate Professor (2021)

YuPing Chen PT PhD, Georgia State University Promotion to Full Professor (2021)

Lou Awad, PT, DPT, PhD, Boston University, Promotion to Associate Professor with Tenure (2022)

Michele Wiley PT, DPT, PhD PCS University of Promotion to Associate Professor (2022)

George Fulk, PT, PhD Emory University, Promotion to Full Professor, (2022)

Joanne Donoghue PhD, NYIT, Promotion to Professor (2023)

Pierce Boyne Professor, PT PhD University of Cincinnati Promotion to Professor (2024)

Veronica Ntseia PT PhD School of Therapeutic Sciences, The University of the Witwatersrand, South Africa Promotion to Professor (2024)

Miriam Rafferty PT PhD, Northwestern Promotion to Associate Professor (2025)

Doron Friedman, PhD Reichman University, Israel (Feb 2025) Promotion to Full Professor

Vesna Novak, PhD. Department of Electrical and Computer Engineering at the University of Cincinnati. Promotion to Full Professor (9-2025)

## **TEACHING RESPONSIBILITIES**

### **UMDNJ-SHRP**

#### BS Program in Physical Therapy

Proprioceptive Neuromuscular Facilitation Section of Praxis III 4 credit course

Section Instructor, 1987-1994

Adult Rehabilitation Section of Praxis III 4 credit course

Section Instructor 1990-1994

Clinical Investigations, 3 credit course,

Sole instructor 1993-1995

Clinical Medicine, 3 credit course,

Course Coordinator 1993-95

Senior Seminar, 3 credit course

Course Coordinator 1994

Normal Gait Section of Biomechanics, 3 credit course,

Section Instructor 1993-1995

Pathological Gait Section of Therapeutic Exercise, 3 credit course

Section Instructor 1993-1995

#### MS Program in Physical Therapy

Scientific Inquiry II 2 credit course,

Sole instructor 1995-2000

Scientific Inquiry III, IV, 1 and 2 credit courses

Group Leader 1995-2001

(Judy has overseen between one and three groups every year.)

Adult Rehabilitation, 3 credit course

Sole instructor 1997- 2001

Clinical Analysis III, 2 credit course

Tutor, 1996

PNF Section of Therapeutic Exercise, 3 credit course

Section instructor 1996, 1998-99

#### DPT Program in Physical Therapy

Neurologic Physical Therapy

Sole Instructor and developed the course, 2001-2003

Faculty Liaison 2003-2005

Guest Lecturer 2005-present  
 Scientific Inquiry III  
     Course Coordinator and section leader 2001-2002  
 Clinical Inquiry III  
     Primary Instructor, Course Coordinator and section leader 2002-present  
 Complementary Therapies  
     Co-developed the course and serve as a lecturer 2001-2009  
 Examination and Intervention  
     Lecturer 2001-2010  
     Lab Rotation Leader 2012-2017  
     Guest Lecturer 2018-present  
 Critical Reasoning  
     Lecturer and Small Group Facilitator 2010-present  
 Clinical Inquiry I  
     Small Group Facilitator (2012-2023)  
     Primary Instructor: co-developed a new version of the course and the series 2014-2016  
     Primary Instructor and Coordinator 2017-  
 Therapeutic Exercise  
     Guest Lecturer (2012-present)  
 Applied Physiology  
     Guest Lecturer (2013-present)  
 Examination and Measurement  
     Guest Lecturer (2019-present)  
 Elective Video Games in Rehabilitation  
     Designed and Taught the course (2014-2016)  
 Advanced Literature Review  
     Faculty Facilitator (2017- present)  
 Topical Seminar: Technology Enhance Physical Therapy  
     Designed and Taught the course (2021-)  
 Topical Seminar: Yoga & Meditation Incorporated into Physical Therapy Practice  
     Designed and Taught the course (2025-)

#### New DPT Program

Foundations of Exam and Evaluation  
     Co-Instructor. Developed and Taught a Course Unit 2023-  
 Clinical Inquiry I  
     Sole Instructor and developed the course 2024  
 Clinical Inquiry III  
     Primary instructor and developed the course 2024  
 PPCM1 and PPCM2 Guest Lecturer 2023 and 2024  
 Geriatrics Guest Lecturer 2025-

#### PhD in Biomedical Engineering (Joint Program between UMDNJ and NJIT) now GSB

PhD student rotation supervisor (2009-present)  
 PhD supervisor (2010-present)

Reviewer for qualifying exams (2017-)

**GRANT SUPPORT:**

Current

PR: Deutsch Satsang Community for Wellness  
Joy at Work Grant May 2025- May 2026

Past

PI: Deutsch: Virtual Cycling Environment (VCYCLE) Increases Exercise Intensity of Older Adults and Persons with Parkinson Disease  
NIA R-15 AG063348-0 Sept 2019-August 2024 (432,000)

PI: Palmieri Enhancing Exercise Intensity, Motivation and Enjoyment for Persons with PD: Comparing Visual Feedback and Competition in A Virtual Cycling Environment (VCYCLE)  
NIA F-30 AG072807-01 April 2021-

Role: Mentor

PI Rickensmeyer Interdisciplinary Rehabilitation Engineering Research Career Development Program

Role: Mentor Mentee: Antonia Zaferiou K12HD073945 January 2021-December 2021

PI: Deutsch VSTEP Digital Health Platform  
NSF ICorps January 2019-May 2021 (\$50,000)

PI: Deutsch Open Rehabilitation Initiative Usability and Knowledge Translation  
Rutgers Global March 2018-Dec 2021 (8,000)

PI: Deutsch VSTEP Digital Health Platform for Movement and Fitness  
Rutgers TechAdvance Fund July 2017-June 30, 2019 (88,000)

PI: Deutsch: VSTEP to improve balance, mobility, coordination and fitness for persons post-stroke  
QED Science Center Innovation Grant January 2016-June 2017 (100,000)

Advisory Panel V-Time PI Jeff Hausdorff  
Virtual reality-Treadmill combined Intervention for enhancing Mobility and reducing falls in the Elderly  
Collaborative Project - Small or medium-scale focused research project  
European Council (Jan 2012-Dec 2015)

Co:PI Comparison of lower extremity kinematic patterns in individuals with Parkinson's disease during stationary upright and semi-reclined cycling  
NYIT ISRC Grant: Rose Gallagher PI (7,570 dollars)

Mentor: Energy Expenditure During Interactive Videogaming of individuals post-stroke.  
AHA Founders Post Doctoral Fellowship July 1, 2011- June 30<sup>th</sup> 2013) 90,000 over two years

Co-Principal Investigator: Integrated Motor Imagery for People Post-Stroke  
NCMRR-RO3 (March 2008 April-2011) year one 7,500 year two 13,500

Principal Investigator: Virtual Reality Augmented Cycling for Post-Stroke Mobility Rehabilitation  
NCMRR- STTR (March 2007- June 2009) 62,500 (total 170,000)

Principal Investigator: Virtual Reality in Neuro Rehabilitation  
NINDS R-13 (June 2008) 4,000

Principal Investigator: Efficacy and Efficiency of a Web-Based Computer Simulated Patient Management Program IAMS- Educational Technology Grants- UMDNJ Foundation (June 2008- June 2009)

Advisor: Rehabilitation Engineering Research Center (RERC) on Technology for Children with Orthopedic Disabilities by the National Institute on Disability and Rehabilitation Research (NIDRR) 2005-2010

Faculty Advisor: Comparison of Computer Based Patient Simulation Program and Facilitator Led Text-Based Cases to Promote Clinical Reasoning in Physical Therapy Students. Foundation for Physical Therapy (July 2008- July 2009), 10,000

Principal Investigator: Development of a Web-based Interactive Clinical Case Simulation IAMS: National Library of Medicine \$19, 625. ( June 2007-June 2008)

Principal Investigator, “Post-Stroke Mobility Rehabilitation Using at Home VR-Based Dual Haptic Platforms” National Science Foundation, Sub-Contract to UMDNJ- \$85,000 (June 1, 2002 to May 30 2006).

Principal Investigator: Motor imagery ability in individuals post-stroke: a behavioral and functional imaging study. UMDNJ Foundation \$25,000 1999-2006

Principal Investigator NSF REU Supplemental Funding: Post-Stroke Mobility Rehabilitation Using at-Home VR-Based Dual Haptic Platforms 9, 000 (June 2004-Sept 2004)

Consultant: New Jersey Commission on Science and Technology R&D Excellence Program. Collaborative Telemedicine Environments: New Jersey Center for Multimodal Collaborative Systems

The major goal of this subproject is upper and lower extremity post-stroke training in virtual reality using novel haptic interfaces and simulations. (8/1/98 - 7/31/03) Flannagan (PI)

Co- Investigator: Testing the part-to-whole training assumption using a Proprioceptive Neuromuscular Facilitation paradigm in healthy and orthopedic populations. UMDNJ Foundation, \$25,000

Mentor: Advanced Rehabilitation Research Training Project, Kessler Institute for Rehabilitation, National Institute for Disabilities and Related Research, 1997-2002, \$750,000

Co-Principal Investigator: The Use of Interactive Computer Software for Assessment and Movement Analysis of Patients with a Primary Neurologic Disorder. Wallerstein Foundation for Geriatric Life Improvement, 1995-2002, \$47,500.

**PUBLICATIONS: \* Received an award**

**A. Refereed Original in Journal Article Articles ([H index 47- google](#)) selected with two in review**

Bonnechère, B., & **Deutsch, JE.** (2025). The Wii-Volution in Rehabilitation, A Legacy Interrupted. *Games for health journal*, 10.1177/2161783X251397929. Advance online publication. <https://doi.org/10.1177/2161783X251397929>

Palmieri JL, & **Deutsch JE.** (2025). The effects of competition on exercise intensity and the user experience of exercise, during virtual reality bicycling for healthy adults across the lifespan. *BMC sports science, medicine & rehabilitation*, 17(1), 228. <https://doi.org/10.1186/s13102-025-01253-9>

Laver, K. E., Lange, B., George, S., **Deutsch JE**, Saposnik, G., Chapman, M., & Crotty, M. (2025). Virtual reality for stroke rehabilitation. *The Cochrane database of systematic reviews*, 6(6), CD008349. <https://doi.org/10.1002/14651858.CD008349.pub5>

Dereje D, Lamba D, Abessa TG, Kenea C, Ramari C, Osama M, Kossi O, Boma PM, Panda J, Kushnir A, Mourad J, Mapinduzi J, Fourtassi M, Daniels K, **Deutsch JE**, Bonnechère B. [Unlocking the potential of serious games for rehabilitation in low and middle-income countries: addressing potential and current limitations.](#) *Front Digit Health*. 2025 Jan 31;7:1505717. doi: 10.3389/fdgh.2025.1505717. eCollection 2025.

Romney W, Rodis M, Spiro AL, Roberts KE, Hemmer MC, **Deutsch JE.** [Use of a Knowledge Translation Approach to Promote Implementation of Clinical Practice Guidelines in an Experiential Learning Course Within an Entry-Level Doctor of Physical Therapy Program: A Qualitative Study.](#) *J Phys Ther Educ*. 2025 Feb 11. doi: 10.1097/JTE.000000000000400. Online ahead of print.

**Deutsch JE.** [Arriba y Adelante: Looking Outward and Moving Ahead.](#) *Phys Ther*. 2024 Dec 6;104(12):pzae156. doi: 10.1093/ptj/pzae156.

Lourenço MA, Oliveira TP, Miranda CS, d'Alencar MS, Santos TGS, **Deutsch JE**, Piemonte MEP. [Serious Game-Based Balance Training with Augmented Kinesthetic Feedback Enhances Aspects of Postural Control in Poststroke Patients: A Randomized Clinical Trial.](#) *Games Health J*. 2024 Nov 28. doi: 10.1089/g4h.2023.0214. Online ahead of print.

Palmieri JL, **Deutsch JE.** [The Effects of Competition on Exercise Intensity and the User Experience of Exercise during Virtual Reality Bicycling for Young Adults.](#) *Sensors (Basel)*. 2024 Oct 26;24(21):6873. doi: 10.3390/s24216873.

Palmieri JL, Jones L, Schenkman M, **Deutsch JE.** [Bicycling for Rehabilitation of Persons With Parkinson Disease: A Scoping Review.](#) *J Neurol Phys Ther*. 2024 Jul 1;48(3):125-139. doi: 10.1097/NPT.0000000000000466. Epub 2024 May 2.

Lee AC, **Deutsch JE**, Holdsworth L, Kaplan SL, Kosakowski H, Latz R, McNeary LL, O'Neil J, Ronzio O, Sanders K, Sigmund-Gaines M, Wiley M, Russell T. (2024) [Telerehabilitation in Physical Therapist Practice: A Clinical Practice Guideline from the American Physical Therapy Association.](#) *Phys Ther*. 2024 Mar 21:pzae045. doi: 10.1093/ptj/pzae045. Epub ahead of print. PMID: 38513257.

Romney W, Salbach NM, Perry SB, **Deutsch JE**. (2023) [Evidence-based practice confidence and behavior throughout the curriculum of four physical therapy education programs: a longitudinal study](#). BMC Med Educ. 2023 Nov 7;23(1):839. doi: 10.1186/s12909-023-04821-0.

Van Criekinge T, Heremans C, Burridge J, **Deutsch JE**, Hammerbeck U, Hollands K, Karthikbabu S, Mehrholz J, Moore JL, Salbach NM, Schröder J, Veerbeek JM, Weerdesteyn V, Borschmann K, Churilov L, Verheyden G, Kwakkel G. (2023) [Standardized measurement of balance and mobility post-stroke: Consensus-based core recommendations from the third Stroke Recovery and Rehabilitation Roundtable](#). Neurorehabil Neural Repair. 14:15459683231209154. doi: 10.1177/15459683231209154. Online ahead of print. PMID: 37837351 Review.

Van Criekinge T, Heremans C, Burridge J, **Deutsch JE**, Hammerbeck U, Hollands K, Karthikbabu S, Mehrholz J, Moore JL, Salbach NM, Schröder J, Veerbeek JM, Weerdesteyn V, Borschmann K, Churilov L, Verheyden G, Kwakkel G. (2023) [Standardized measurement of balance and mobility post-stroke: Consensus-based core recommendations from the third Stroke Recovery and Rehabilitation Roundtable](#). Int J Stroke. 12:17474930231205207. doi: 10.1177/17474930231205207. Online ahead of print. PMID: 37824730 Review.

**Deutsch JE**, Palmieri JL, Gorin H, Wendell A, Wohn DY, Damodaran H. (2023) [Student and Faculty Perspectives on the Usefulness and Usability of a Digital Health Educational Tool to Teach Standardized Assessment of Persons After Stroke: Mixed Methods Study](#). JMIR Med Educ. 10;9:e44361. doi: 10.2196/44361. PMID: 37561552 Free PMC article.

Bacha JMR, Pereira GAF, Silva IBAN, Kim DHC, Massaro AB, Vieira KS, Torriani-Pasin C, **Deutsch JE**, Lopes RD, Pompeu JE. (2022) [Immersive Virtual Tasks with Motor and Cognitive Components: A Feasibility Study of Adults and Older Adult Fallers and Nonfallers](#). Cyberpsychol Behav Soc Netw. 26(3):169-176. doi: 10.1089/cyber.2022.0025. PMID: 36880892

Stephenson A, Howes S, Murphy PJ, **Deutsch JE**, Stokes M, Pedlow K, McDonough SM. (2022) Factors influencing the delivery of telerehabilitation for stroke : A systematic review. *PLoS One*. 2022;17(5):e0265828.

**Deutsch JE**, Gill-Body KM and Schenkman S. (2022) Updated Integrated Framework for Making Clinical Decisions Across the Lifespan and Health Conditions. *Physical Therapy*;102, (3) March 2022, p28-31, <https://doi.org/10.1093/ptj/pzab281> \*Editor's Pick and [Podcast](#)

Guerreiro FAAC, Silva TDD, Nunes FLS, Funabashi A, Aranha RV, Silva WS, Bahadori S, Favero FM, Crocetta TB, Massa M, **Deutsch JE**, de Mello Monteiro CB, Magalhães FH. (2022) [Can Individuals Poststroke Improve Their Performance in Reaction and Movement Times in a Nonimmersive Serious Game with Practice? A Cross-Sectional Study](#). Games Health J. 2022 Feb;11(1):38-45. doi: 10.1089/g4h.2021.0191. PMID: 35104167

Romney W, Salbach NM, Parrott JS, Ward IG, **Deutsch JE**. (2022) [A knowledge broker facilitated intervention to improve the use of standardized assessment tools by physical therapists: A cluster randomized trial](#). *Clinical Rehabil* Feb;36(2):214-229. doi: 10.1177/02692155211046460. Epub 2021 Oct 25. PMID: 34694155 Clinical Trial.

**Deutsch JE** James-Palmer A, Damodaran H, Puh U. (2021) Comparison of Neuromuscular and Cardiovascular Exercise Intensity and Enjoyment Between Standard of Care, Off-The-Shelf and Custom Active Video Games For Promotion of Physical Activity of Persons Post-Stroke. *JNER*. 14;18(1):63. doi: 10.1186/s12984-021-00850-2.

Romney W, Bellows DM, Tavernite JP, Salbach N, **Deutsch JE**. (2021) [Knowledge Translation Research to Promote Behavior Changes in Rehabilitation: Use of Theoretical Frameworks and Tailored Interventions: A Scoping Review](#). *Arch Phys Med Rehabil*. 2021 Feb 6. doi: 10.1016/j.apmr.2021.01.076

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Romney W, Salbach N Parrott JS, **Deutsch JE**. (2018) A Knowledge Translation Intervention Designed and Implemented by a Knowledge Broker Improved Documented Use of Gait Speed: A Mixed Method Study. *Journal of Geriatric Physical Therapy*

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Laver KE, Lange B, George S, **Deutsch JE**, Saposnik G, Crotty M. (2017) Virtual Reality for Stroke Rehabilitation. *Cochrane Database Syst Rev*. 2017 Nov 20;11:CD008349. doi: 10.1002/14651858.CD008349.pub4.

Llorens R, Noé E, Alcañiz M, **Deutsch JE** (2017) Time since injury limits but does not prevent improvement and maintenance of gains in balance in chronic stroke. [Brain Inj.](#) 2018;32(3):303-309. doi: 10.1080/02699052.2017.1418905. Epub 2017 Dec 26.

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Maidan I, Rosenberg-Katz K, Jacob Y, Giladi N, **Deutsch JE**, Hausdorff, JM, Mirelman (2016) A. Altered brain activation in complex walking conditions in patients with Parkinson Disease. *Parkinsonism and Related Disorders* 2016 Apr;25:91-6. doi: 10.1016/j.parkreldis.2016.01.025. Epub 2016 Feb

Wolf SL, Kwakkel G, Bayley M, McDonnell MN for the Upper Extremity Stroke Algorithm Group. (2016) Best practice for arm recovery post-stroke: an international application. *Physiotherapy* 2016 Mar;102(1):1-4. doi: 10.1016/j.physio.2015.08.007. Epub 2015 Sep 26.

**Deutsch JE**, Romney W, Manal TJ (2015) Validity and Usability of a professional association's web-based knowledge translation portal: APTA PTNow.org. *BMC Medical Informatics* 15:79-

Laver K, George S, Thomas S, Deutsch JE, Crotty M. (2015) Virtual reality for stroke rehabilitation [Cochrane Database Syst Rev.](#) 2015 Feb 12;2:CD008349. doi: 10.1002/14651858.CD008349.pub3.

Wiemeyer J, Deutsch J, Malone LA, Rowland JL, Swartz MC, Xiong J, Zhang FF. (2015) Recommendations for the Optimal Design of Exergame Interventions for Persons with Disabilities: Challenges, Best Practices, and Future Research. *Games Health J.* 2015 Feb;4(1):58-62. doi: 10.1089/g4h.2014.0078. Epub 2014 Dec 3.

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Kafri M, Myslinski M, Gade VK, Deutsch JE. (2014) High Metabolic Cost and Low Energy Expenditure for Typical Motor Activities among Individuals in the Chronic Phase Post-Stroke. *JNPT* 38;226-232

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Pompeu, JE, Aruini La, Botelho AR, Fonseca MB, Pompeu SM, Torriani-Pasin C, Deutsch, JE. Feasibility, Safety And Effectiveness Of The Use Of Kinect Adventures! Games™ On Rehabilitation Of Patients With Parkinson Disease: A Pilot Study (2013 JE (Physiother epub December 23, 2013)

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**Deutsch JE**, Myslinski MJ, Kafri M, Ranky R, Sivak M, Mavroidis C, Lewis JA (2013) Feasibility of virtual reality augmented cycling for health promotion of people poststroke. *J Neurol Phys Ther*;37(3):118-24.

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**Deutsch JE** (2009) Virtual Reality and Gaming systems to improve walking and mobility for people with musculoskeletal and neuromuscular conditions. *Studies in Health Technology and Informatics*. 145:84-93.

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**Deutsch JE**, Boberly M, Filler J, Huhn K, Guarrera-Bowlby P. Use of commercial gaming console (Wii) for rehabilitation of an adolescent with cerebral palsy. (2008) *Physical Therapy* October 2008 vol. 88 no. 10 1196-1207

Dunsky A, Dickstein R. **Deutsch JE**. Home-based motor imagery training for gait rehabilitation of individuals with chronic post-stroke hemiparesis. *Archives of Phys Med Rehabil* Oct 2008

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Huhn K. Guarrera Bowlby P. **Deutsch JE**. (2007) A Multiply Handicapped Child's Performance on a Rear-wheel Drive vs. Mid-wheel Drive Power Wheelchairs *JPPT* 19:254-260.

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**Deutsch JE** Lewis JA, Burdea G. (2007) Technical and Patient Performance Using a Virtual Reality-Integrated Telerehabilitation System: Preliminary Findings. *Neural Systems and Rehabilitation Engineering* 15(1):30 - 35

Schenkman M, **Deutsch JE**, Gill Body (2006) Applying Models and Frameworks for Clinical Decision Making in Neurologic Physical Therapy *Phys Ther* 86(12)1681-1702

\* Received the Jack Walker Award for best clinical paper published in PTJ during 2006

Dunsky A, Dickstein R, Ariav C, **Deutsch JE**, Marcovitz E. (2006) Motor Imagery Practice in Gait Rehabilitation of Chronic Post-Stroke Hemiparesis: Four Case Studies *Int Journal of Rehabil Res* 29(4)351-256

JA Lewis, **JE. Deutsch**, G. Burdea (2006) Usability of the Remote Console (ReCon) for Virtual Reality Telerehabilitation: Formative Evaluation. *Cyberpsychology & Behavior* 9(2);142-147.

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Palgi K, **Deutsch JE** (2005) Physical Therapy Management of an individual with a hemipelvectomy. *Rehabilitation Oncology* 23(2), pp20-23.

**Deutsch, JE**, Lewis JA, Whitworth E, Boian R, Burdea G, Tremaine M, (2005) Formative Evaluation and Preliminary Findings of a Virtual Reality Telerehabilitation System for the Lower Extremity, Presence, Special Issue on Virtual Rehabilitation, 14(2), pp. 198-213.

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**Deutsch JE**, Merians AS, Burdea G, Boian R, Adamovich S. Poinzer H. (2002) Haptics and Virtual Reality Used to Increase Strength and Improve Function in Chronic Patients Post-stroke: Two Case Reports. *Neurology Report* 26(2)78-85.

**Deutsch JE**, Latonio J, Burdea G, Boian R. Post-Stroke Rehabilitation with the Rutgers Ankle System – A case study (2001) Presence, MIT Press, 10:416-430.

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**Deutsch JE**, Derr L, Judd P., Reuven B. (2000) Structural Integration Applied to Patients with Chronic Pain. Orthopedic Physical Therapy Clinics of North America 9 (3)411-427.

**Deutsch JE**, Nicholson DE, Shumway Cook A, Brown DA, Gordon, J. (2000) Updating Neurologic Curriculum Using a Peer-Review Process. Neurology Report, 24(3) 101-110

Girone MG, Burdea G, Bouzit M, **Deutsch JE**. (2000) Orthopedic rehabilitation using the "Rutger's Ankle" interface" in Medicine Meets Virtual Reality 2000 Envisioning Healing Interactive Technology and the Patient Practitioner Dialogue 70 89-95.

## **B. Books, Monographs and Chapters**

### **Books**

Complementary Therapies for Physical Therapists: A Clinical Decision Making Approach: Deutsch JE and Anderson EZ. Elsevier, December 2007 \*received a publication award

**Book Chapters – 16** (Stroke Rehabilitation, Structural Integration, Virtual Reality and Telehealth 2002-2022

**Deutsch JE**. The Ida Rolf Method of Structural Integration in C. Davis (Ed). Integrative Therapies in Rehabilitation: Evidence of Efficacy in Therapy, Prevention and Wellness (5<sup>th</sup> Ed). *In Press*

**Deutsch JE**, O’Sullivan. Stroke In: O’Sullivan S, Schmitz T and Fulk G. Physical Rehabilitation (8<sup>th</sup> Ed) 2024

**Deutsch JE**, O’Sullivan. Clinical Decision Making In: O’Sullivan S, Schmitz T and Fulk G. Physical Rehabilitation (8<sup>th</sup> Ed) 2024

Fluet G., Joy DV, Bermúdez i Badia, S., Llorens, R., & **Deutsch, JE**. (2022). Virtual reality for sensorimotor rehabilitation post stroke: Design principles and evidence. In Neurorehabilitation Technology (pp. 573-603). Springer International Publishing.

**Deutsch JE**, O’Sullivan. Stroke In: O’Sullivan S, Schmitz T and Fulk G. Physical Rehabilitation (7<sup>th</sup> Ed) 2019

Lee A, **Deutsch JE** Telehealth and Virtual Reality in Musculoskeletal Practice. In: Lee A, Deutsch JE. Independent Study Course 27.4, Frontiers in Orthopedic Science. LaCrosse, WI. Orthopaedic Section, APTA, Inc; 2017.

**Deutsch JE.** The Ida Rolf Method of Structural Integration in C. Davis (Ed). Integrative Therapies in Rehabilitation: Evidence of Efficacy in Therapy, Prevention and Wellness (4<sup>th</sup> Ed). SLACK 2017. pp. 131-138

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Virtual Reality and Video Games in Stroke Rehabilitation In J Stein et al (Ed) Stroke Recovery and Rehabilitation (2<sup>nd</sup> Ed) Demos Medical 2016 20-15 pp. 374-383.

Validity of virtual reality environments for sensorimotor rehabilitation Mindy F. Levin, **Judith E. Deutsch**, Michal Kafri, Dario G. Liebermann in Virtual Reality Technologies for Health and Clinical Applications (Series editor: P. Sharkey): Vol. 1: Applying Virtual Reality Technologies to Motor Rehabilitation, P.L. Weiss, E.A. Keshner, M.F. Levin (Eds), Springer, in press

Virtual reality augmented training for improving walking and reducing fall risk in patients with neurodegenerative disease Anat Mirelman, **Judith E. Deutsch**, Jeffrey M. Hausdorff in Virtual Reality Technologies for Health and Clinical Applications (Series editor: P. Sharkey): Vol. 1: Applying Virtual Reality Technologies to Motor Rehabilitation, P.L. Weiss, E.A. Keshner, M.F. Levin (Eds), Springer, in press

Virtual Reality and Gaming Systems to Improve Waking and Mobility for People with Musculoskeletal and Neuromuscular Conditions. In Advanced Technologies in Rehabilitation: Empowering Cognitive Physical, Social and Communicative Skills through Virtual Reality, Robots, Wearable Systems and Brain-Computer Interfaces. A. Gaggioli, EA Keshner, PL Weiss, G. Riva (Eds). Studies in Health Technologies volume 145, IOS Press, 2009 pages 84-94.

The Ida Rolf Method of Structural Integration in C. Davis (Ed). Complementary Therapies in Rehabilitation: Evidence of Efficacy in Therapy, Prevention and Wellness. SLACK 2008. pp.

The Ida Rolf Method of Structural Integration in C. Davis (Ed). Complementary Therapies in Rehabilitation: Evidence of Efficacy in Therapy, Prevention and Wellness. SLACK 2004. pp. 99-105.

Introduction to Manual Body Based Approaches, in J Carlson (Ed) Complementary Therapies and Wellness: Practice Essential for Holistic Care (2002) Prentice Hall, Upper, Saddle River, NJ, pp. 100-105

Researching Complementary Therapies, in J Carlson (Ed) Complementary Therapies and Wellness: Practice Essential for Holistic Care (2002) Prentice Hall, Upper, Saddle River, NJ, pp. 44-57

Structural Integration (Rolfing), in J Carlson (Ed) Complementary Therapies and Wellness: Practice Essential for Holistic Care (2002) Prentice Hall, Upper, Saddle River, NJ, pp. 256-267

## **Edited Publications**

Carlos, Hellen Dawes, **Deutsch JE**, Virtual Reality and Sensorimotor Rehabilitation of Neurological Health Conditions Across the Lifespan (Senior Editor) Special Issue of *Frontiers in Neurology*

**Deutsch JE & McDonough (2009)** Virtual Reality and Gaming for Rehabilitation (Editorial and Editor) Special Issue of *Virtual Reality: Physical Therapy Reviews*. 14(5) 297-298

Gill Body and Deutsch JE (2006) Integrating IIIStep into Practice Education and Research *JNPT*

**Deutsch JE** (2002) Technology and Neurologic Physical Therapy *Neurology Report* 26 (2)

**Deutsch JE** (2001) Complementary Therapies, *Neurology Report* 25 (2)

**Deutsch JE**, Nicholson D (1996) (Eds) Issues in Professional-Level Neurology Content in Physical Therapy Education. *Neurology Report* 20.

### **Other Publications**

Rehabilitation and the Vital Role of Physiotherapy: WCPT Response to COVID19 Briefing Paper 2. (May 2020). Bury T, Clague-Baker N, **Deutsch JE**, Finucane L, Hobbelen H, Morris L, van der Wees P, Stokes E, ten Hove R

<https://www.wcpt.org/sites/wcpt.org/files/files/wcptnews/COVID19-Briefing-paper-2-Rehab-PT-May2020.pdf>

Translated into Spanish.

"Validity and Reliability of a Rural Rehabilitation Index" Master's Thesis 1985 The instrument is reproduced in: Werner D.: Disabled Village Children. Hesperian Foundation, Palo Alto, 1987, p.50.

### **C. Conference Papers and Editorials**

#### **Conference Papers (five awards)**

Missing 2024 and 2025 papers

Palmieri J. and **Deutsch JE** (2023) Exercise Intensity in a Virtual Bicycling Environment: Comparing Findings between Young and Older Healthy Adults (VCYCLE-Competition). *ICVR* Montreal July 2023.

**Deutsch JE**, Damodaran H, Gallagher R, Palmieri J. Donoghue J. (2023) Comparison of immersive and semi-immersive cycling on exercise intensity and user experience during a bicycling task. *ICVR* Montreal July 2023.

Palmieri JL, Gorin H, Damodaran, H, K, Wendell A. Wong D. **Deutsch JE**, (2022) Usability and Usefulness of VSTEP Examination Suite: Student Perspective *ICVR* Rotterdam July 2022, \* *Best Poster Award*

**Deutsch JE**, Palmieri JL, Paparella-Pitzel S, Fluet G. (2022) Combining custom virtual reality and non-custom serious games- both in person and via telehealth for the comprehensive rehabilitation of a person post-stroke. *ICVR*, Rotterdam, July 2022

**Deutsch JE**, Damodaran, H, Palmieri JL, Gorin H, Van Epps J, Rosenblatt A, Hussey, K,

Wendell Au, Wong D. (2021) Usability and Usefulness of VSTEP Examination Suite: Faculty Perspective *ICVR 2021, Virtual \* Best Poster Award*

Palmieri J, Gallagher R, Donoghue J, Volvino, **Deutsch JE**: (2021) Ability to Bicycle in Fully-Immersive Virtual Reality is Preserved for Person with Parkinson's Disease and Moderate Dyskinesia (2021) *ICVR 2021 Virtual*

James-Palmer A, Puh U, Damodaran H, Kim E, Bowlby P, **Deutsch JE**. (2019) Playing Self-Paced Video Games Requires the Same Energy Expenditure but is more Enjoyable and Less Effortful than Standard of Care Activities. *Proceedings of ICVR 2019*, Tel Aviv Israel

**Deutsch JE**, Hoehlein B, Priolo M, Pacifico J, Damodaran H, Puh U. (2019) Custom Game Paced Video Games Played by Persons Post-Stroke Have Comparable Exercise Intensity but Higher Accuracy, Greater Enjoyment and Less Effort than Off-The-Shelf Game *Proceedings of ICVR 2019*, Tel Aviv Israel

Levac DE, Glegg S, Pradhan S, Fox EJ, Espy D, Chicklis E, **Deutsch JE**. A comparison of virtual reality and active video game usage, attitudes and learning needs among therapists in Canada and the US. *Proceedings of ICVR 2019*, Tel Aviv Israel

Romney W, Ward I, Zeitlin D, Snowdon L, Parrott SA, Salbach N, **Deutsch JE**. (2017) An integrated knowledge translation intervention tailored by an external knowledge broker increased the use of outcome measures by physical therapists in inpatient rehabilitation: A pilot cluster randomized controlled trial. 10<sup>th</sup> Annual Conference on the Science of Dissemination and Implementation, Arlington, VA.

**Deutsch JE**, Bowlby P, Kafri M. (2017) Participation outcomes differed between video game-based balance training and standard of care training: Pilot clinical trial. *IEEE Proc International Conference on Virtual Rehabilitation*. Montreal, Canada June, 2017.

Bermudez iBadia, **Deutsch JE** and Llorens R. Open Rehabilitation Initiative: Design and Formative Evaluation Proc. 11<sup>th</sup> International Conference on Disability Virtual Reality and Associated Technologies. PM Sharkey and AA Rizzo (Eds) pp 93-100, Los Angeles, CA Sept 2016

Maidan I, Rosenberg Katz, Giladi J, **Deutsch JE**, Hausdorff J, Mirelman A. (2015) Differential neural activation in healthy older adults compared to subjects with Parkinson Disease during motor imagery of walking in virtual environments. *IEEE Proc International Conference on Virtual Rehabilitation*, p 5-10. Valencia 2015

Gosine R, Damodaran H, **Deutsch JE**, Formative evaluation and preliminary validation of Kinect open source stepping game, *IEEE Proc International Conference on Virtual Rehabilitation*, p 92-99. Valencia 2015

**\*Deutsch JE**, Rothman J, Barker B, Grando A, Damodaran H, The effect of video game interaction on walking intensity: Preliminary study of young, older adults and persons post-stroke, *IEEE Proc. Int Conference on VR*, p 24-29. Valencia 2015

\*Gallagher R, Damodaran H, Werner WG, **Deutsch JE**, Influence of cueing, feedback and directed attention on cycling in a virtual environment: Preliminary findings in healthy adults and persons with PD, *IEEE Proc Int Conference on Virtual Rehabilitation*, p 11-17. Valencia 2015

#### Missing Gait and Posture 2015

Romney W, Manal T, Deutsch J. (2014) "Clinician variability in accessing and using an online evidence based resource", *Combined Sections Meeting*, Las Vegas, NV.

Gade V, Gallagher R, Maidan I. Patel C. **Deutsch JE**. (2013) Path width, path difficulty and optic flow differentially affect young, older adults and individuals post-stroke in a virtual cycling environment. *ICVR*, Philadelphia, PA

Farjadian AB, Kong Q, Gade VK, **Deutsch JE**, Mavroidis C. (2013) VRACK: Measuring pedal kinematics during stationary bike cycling. *IEEE Int Conf Rehabil Robot*. 2013 Jun; 2013:1-6

**Deutsch JE**, Myslinski J. (2012) Metabolic Response to Virtual Reality Augmented Cycling *ICDVRAT*, Laval, France

Ranky R. Sivak M. Lewis J, Gade V, **Deutsch JE**, Mavroidis C., "VRACK - Virtual Reality Augmented Cycling Kit: Design and Validation," *Proc. of the 2010 IEEE VR Conf.*, March 20-26, 2010 in Waltham, MA.

Huhn, K, Anderson, E, **Deutsch, JE**. Using a Web-Based Patient Simulation Program to Teach Clinical Reasoning to Physical Therapy Students: Feasibility and Pilot Studies. Published in 2008 Conference Proceedings of the E-Learn Conference

**Deutsch JE** R. Boian, R., Lewis JA, Burdea G. Minsky A. Haptic Effects Modulate Kinetics of Gait but not Experience of Realism in a Virtual Reality Walking Simulator, *IVR Proceedings* August 2008.

**Deutsch JE**, Lewis JA, Burdea G (2006) Virtual Reality-Integrated Telerehabilitation System: Patient and Technical Performance. *Proceedings of IWVR* 2006.

\*Mirelman A, **Deutsch JE**, Bonato P, (2006) Greater Effect of Lower Extremity Training with Robotics and Virtual Reality for Transfer to Overground Walking Speed than Robotics Training Alone: Preliminary Findings, *Proceedings of IWVR*.

JA Lewis, **JE. Deutsch**, G. Burdea (2005) Usability of the Remote Console (ReCon) for Virtual Reality Telerehabilitation: Formative Evaluation. *Proceedings from IWVR* Sept 2005.

Boian, R.F. M. Bouzit, G. Burdea, J.A. Lewis and **Deutsch JE**, (2005) "Dual Stewart Platform Mobility Simulator," International Conference on Rehabilitation Robotics (ICORR), Chicago, June 28-July 1, 2005

Lewis J.A., Boian R, Burdea G, **Deutsch JE** (2005) Remote Console for Virtual Telerehabilitation, *Proceedings of MMVR* 2005, Long Beach, California, pp. 294-300, January 2005.

Whitworth E, Lewis JA, Boian R, Tremaine M, Burdea G, **Deutsch JE**. (2003) Formative Evaluation of a Virtual Reality Telerehabilitation System for the Lower Extremity. Proceedings of the 2<sup>nd</sup> International Workshop on Virtual Reality Rehabilitation, IWVR 2003, 13-20.

Boian RF, **Deutsch JE**, Lee CS, Burdea GC, Lewis J (2003) Haptic Effects for Virtual Reality-based Post-Stroke Rehabilitation", Proceedings of the Eleventh Symposium on Haptic Interfaces For Virtual Environment And Teleoperator Systems, Los Angeles, CA, March 2003, pp. 247-253.

Lewis J, Boian RF, Burdea GC , **Deutsch JE**, (2003) Real-time Web-based Telerehabilitation Monitoring , Proceeding of Medicine Meets Virtual Reality, IOS Press, pp. 190-192.

Boian RF, Lee CS, **Deutsch JE**, Burdea GC, Lewis JA. (2002) Virtual reality-based system for ankle rehabilitation post-stroke. Proceedings First International Workshop on Virtual Reality Rehabilitation. IWVR 2002, Laussane, p 77-86.

### **Editorials and Commentaries**

Monteiro CBM, Dawes H, **Deutsch JE**. [Editorial: Virtual Reality for Sensorimotor Rehabilitation of Neurological Health Conditions Across the Lifespan](#). *Front Neurol*. 2021 Nov 25;12:766349. doi: 10.3389/fneur.2021.766349. eCollection 2021. PMID: 34899580

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**Deutsch JE** (2008) JNPT Vol 32 (3)

**Deutsch JE** (2008) JNPT Vol 32 (2)

**Deutsch JE** (2008) JNPT Vol 32(1)

**Deutsch JE** (2007) JNPT Vol 31(4)

**Deutsch JE** (2007) JNPT Participates in WCPT Vol 31 (3)

**Deutsch JE** (2007) JNPT Podcast Success JNPT Vol 31 (2)

**Deutsch JE** (2007) JNPT Partners with LWW JNPT Vol 31(1)

**Deutsch JE** (2006) Excited about EXCITE and JNPT. JNPT Vol 30(4)p. 173

Kathy Gill Body and **Deutsch JE** (2006) Integrating IIIStep into Practice Education and Research JNPT Vol 30 (3) pp. 97-98

**Deutsch JE** (2006) JNPT Podcasts - In Your Own Voice VOI 30(2)

**Deutsch JE** (2006) Editor's Note- JNPT Promotes Knowledge Translation Using Podcasts VOI 30(1) p. 1

**Deutsch JE** (2005) JNPT is officially indexed in MEDLINE JNPT Vol 29(4) p. 169

- Deutsch JE** (2005) JNPT is accepted for indexing in MEDLINE. JNPT Vol 29 (3). p.
- Deutsch JE** (2005) Translational Research and Educational Resources, JNPT Vol. 29 (2) p. 53.
- Deutsch JE** (2005) Enabling Our Patients, JNPT Vol. 29 (1) p. 1
- Deutsch JE** (2004) Confused about physical therapy diagnosis and differential diagnosis? Vol. 28(4) p. 153
- Deutsch JE** (2004) Clinical Decision Making and the Step Conferences JNPT Vol. 28 (3) 109 and 149
- Deutsch JE** (2004) Standardizing Examination of Outcomes, JNPT Vol. 28 (2) p.
- Deutsch JE** (2004) The Value of Prognosis and Classification. JNPT Vol. 28 (1) p. 1.
- Deutsch JE** (2003) Standardizing Practice. JNPT Vol 27(4) p. 141
- Deutsch JE** (2003) *The Journal of Neurologic Physical Therapy* On-Line, JNPT Vol 27 (3) p. 89
- Deutsch JE** (2003) Traditional Neurologic Physical Therapy? Neurology Report Vol 27(2) p.37
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- Deutsch JE** (2002) The Year in Review and Looking Ahead Neurology Report Vol 26(4)
- Deutsch JE** (2002) International Collaborations Neurology Report Vol 26 (3) 113.
- Deutsch JE** (2002) Introduction and Commentary: Physical Therapist and Technology-Emphasis on the Potential of Virtual Reality Neurology Report Vol 26(2) 55-56.
- Deutsch JE** (2002) Journal Clubs, Neurology Report Vol26(1) 1-2.
- Deutsch JE** (2001) *Neurology Report* Announces the Formation of an Editorial Board, Neurology Report Vol 25 (4)
- Deutsch JE** (2001) Brain Drain and Neurologic Physical Therapy, Neurology Report Vol 25 (3)
- Deutsch JE** (2001) Complementary Therapies and Neurologic Physical Therapy, Neurology Report Vol 25 (2)
- Deutsch JE** (2001) Change is Good Neurology Report Vol 25 (1)
- Deutsch JE** (2000) Informing the Future of *Neurology Report* Neurology Report Vol 24 (5)
- Deutsch JE** (2000) Health Related Quality of Life Applied to Patients with Neurologic Diagnoses Neurology Report Vol 24 (4)
- Deutsch JE** (2000) Possibilities. Neurology Report Vol 24 (3)

**Deutsch JE** (2000) Disseminating the Conversations from Scientific Meetings Neurology Report Vol 24 (2)

#### **D. Published Abstracts**

**Need wept 2007 and 2011, 2015 and hbm abstracts for 2007, CSM and Annual 2008, Huhn abstracts too, CSM 2013, 2014, 2015, 2016, 2021, 2022, 2023 and WCNR 2016, WPT 2025**

Barrata N, Delgado R, Ghutta G, Gonzales CS, Jamal S, Nagpal J, Pfister DM, Scerbak AA, van Epps J, Deutsch JE For Persons with Parkinson's Disease, Does Speed Dosed Training Improve Motor Symptoms and Motor Performance? *CSM 2020, Denver, Colorado*

Andre D, Beltejar R, Caufield C, Deak J, Hagan S, McPherson A, Pacifico J, Priolo M, **Deutsch JE.** (2019) For persons with Parkinson's Disease, does bicycling reduce motor symptoms and improve motor performance? *CSM 2019 Washington DC.*

Levac D., Glegg S., Pradhan S., Fox E., Espy D., **Deutsch JE.**(2019) Virtual reality/active video gaming use and learning needs among physical and occupational therapists practicing in the US. *CSM 2019 Washington DC.*

Schoenthaler T, Wenger J, Albano M, Fehring A, Gulieb M, Hernandez A, Licameli N, Marion E. **Deutsch JE** (2014) For people post-stroke is there evidence that off-the-shelf video games improve upper limb function? *Presented at CSM Los Vegas Feb. 2014 published in JNPT 2013, Presented at APTAnj 2014.*

Dickstein R., Dunsky A, Yoel Y, Kafri M, Falash F, Eshed A1, **Deutsch JE** (2012) Integrated Motor Imagery Improves Walking and Self-Efficacy of Individuals Post-Stroke, International Society for Posture and Gait. Trondheim, Norway.

A. Brettler; V. Gade; E. Tunik **J. E. Deutsch.** Learning differences of distal effector in virtual path navigation task. *Society for Neuroscience, Washington DC, November 2011,*

**Deutsch JE,** Lewis JA, McCall D, Lanin P. Bowlby P, Boian R, Burdea G. (2006) Characterization and Validation of Virtual Reality Walking Simulator. *JNPT Vol 30 (4) 198-199.*

**Deutsch JE,** Fischer S, Liu W. Kalnin A, Mosier K. (2006) Representation of Imagined and Executed Sequential Finger Movements of Adults Post Stroke and Healthy Controls, Organization of Human Brain Mapping (June 2006)

**Deutsch JE,** Fischer S, Liu W. Kalnin A, Mosier K. (2005) Representation of Imagined and Executed Sequential Finger Movements of Adults Post Stroke and Healthy Controls, *JNPT Dec 2005*

Chatto C. **Deutsch JE,** Pillai J Lavin T, Allison J. (2005) Brain Activation During Kinesthetic and Visual Imagery Of Walking, *JNPT Dec 2005*

Chatto C. **Deutsch JE,** Pillai J, Lavin T and Allison J. (2005) Brain Activation During Kinesthetic and Visual Imagery of Foot Tapping, Georgia, APTA conference Nov, 2005

Mirelman A, **Deutsch JE**, Lewis JA, Burdea G (2005) Improved Coordination and Gait Speed Of Individuals Post-Stroke After Lower Extremity Training In Virtual Environments. III Step Proceedings, July 2005.

**Deutsch JE**, Paserchia C, Vecchione C, Boian R, Lewis JA, Burdea G, (2004) Improved speed of gait and stairs of individuals post-stroke after lower extremity training in virtual environments. *JNPT*

**Deutsch JE**, Boian, R; Burdea, G; Lewis, J (2003) Virtual Reality-Based Gait Rehabilitation Of Individuals Post-Stroke Using Real-Time Web-Based Telerehabilitation Monitoring. Proceedings of the XIV International World Congress of Physical Therapy, Barcelona.

**Deutsch JE**, Derr L, Judd P, DeMasi I, Reuven B (2003) Outcomes Of Structural Integration Applied To Patients With Different Diagnoses: A Retrospective Review. Proceedings of the XIV International World Congress of Physical Therapy, Barcelona.

Arora Anu, **Deutsch JE**. (2003) Physical Therapy Intervention For A Child With Congenital Myopathy Of Undetermined Nature, A Case Report, UMDNJ Poster Day

Baumgartner RA, **Deutsch JE** (2003) Heroin Induced Coma: Prediction Of Outcome Based On Intensive Care Unit Coma Scores, A Case Report UMDNJ,Poster Day

Caseley RL, **Deutsch JE**. Use of the SOTO (Step-Out, Turn-Out) Technique to Relieve Muscle Spasm in Piriformis Syndrome: A Case Series. (2003) NJAPTA Abstracts v.13,p. 11.

Legaspi O. Edmond S, **Deutsch JE**. (2003) Sacroiliac Joint Dysfunction and Low Back Pain: A Case Report NJAPTA Abstracts v13, p. 12.

Eisenberg D, **Deutsch JE** (2003) Motor Development and the Use of Ankle Weights in Preschool Children with Down Syndrome: A Case Report. NJAPTA Abstracts v13, p. 13.

Cooke L, Famarin M, Karns B, Ollert R, **Deutsch JE**. (2003)Validity of Mental Practice for Individuals Post-Stroke: A Critical Review (2003) NJAPTA Abstracts v13, p. 22.

Aquila KM, Falciani D, Mathuria AJ, Reilly KE, **Deutsch JE** (2003) Efficacy of Mental Practice to Improve Motor Performance of Individuals Post-Stroke: A Critical Review. NJAPTA Abstracts v13, p. 23.

Karasewicz M, Liu WC, Mosier K, **Deutsch JE** (2002) Brain Activation Changes In Bilateral Sensorimotor Cortical Areas Are Related To Improved Motor Performance As A Result Of Mental Practice. Soc.Neurosci. Abstr.,

**Deutsch JE**, Moore J, Liu WC, Kalnin AJ. (2001) Motor imagery ability in individuals post-stroke: a behavioral and functional imaging study. *Neuroimage*, Vol 13, Part 2, p. S 787

**Deutsch JE**, Fisher M, Riccardi M, Liu WC, Kalnin AJ. (2001) The effect of mental practice on motor performance and the activation of the sensorimotor cortex *Neuroimage*, Vol 13, Part 2, p. S 1154

**Deutsch JE**, Latonio J, Burdea G, Boian R. Post-stroke rehabilitation using virtual reality (American Society of Neurorehabilitation, Philadelphia May 2001)

**Deutsch JE**, Fisher M, Liu W-C, Kalnin AJ. (1999) Mental practice improved motor performance and produced an increased volume of activation in fMRI maps of the sensorimotor cortex. *Neuroimage*, Vol 9, Part 2, p. S411.

Ross EC, **Deutsch JE**. (1999) Muscle activation patterns during the performance of two scapular and two upper extremity PNF patterns. *Phys Ther* Vol 79 (5), p. S25.

Davis MA, Sciandria R, Sisto SA, LaManca JJ, Cook S, **Deutsch JE**, Natelson BH. (1999) A comparison of static and dynamic balance in patients with Chronic Fatigue syndrome vs. sedentary healthy controls. *Phys Ther.* (Phys Ther, Vol 79 (5), p. S13.

Talty C, DeMassi I, **Deutsch JE**. (1998). Structural Integration applied to patients with Chronic Fatigue Syndrome: A retrospective chart review. *JOSPT* Vol. 27(1) p. 83

Fitzgerald J, Abboudi J, Cuff C, Gabriel G, Hoder J, Ross EC, **Deutsch JE**. (1998) Reliability of the timing of muscle onset during the performance of two upper extremity PNF patterns and a related transport movement. *Section on Research Newsletter*, Vol. 30(4) p. 13-14

**Deutsch JE**, Judd P, DeMassi I. (1997) Structural Integration applied to patients with a primary neurologic diagnosis: two case studies. *Neurology Report* Vol. 21(5) p. 161-162

Lange G, Liu WC, **Deutsch JE**, DeLuca J, Maldjian JA. (1997) Stimulus paradigm parameters: The influence of inter-stimulus interval duration on motor and auditory language-tasks. *Neuroimage* Vol. 5(4), part 2, p. 493.

Ross EC, **Deutsch JE**, Redling JR, Sliwinski MM. (1997) Reliability of six upper extremity movements: A kinematic analysis. *Phys Ther* 77(5):s102.

**Deutsch JE**, Liu WC, Maldjian J, DeLuca J. (1996) Mental Practice and Motor Skill Acquisition: A fmri study. *Soc.Neurosci. Abstr.*, Vol 22, Part 1, p. 656.

**Deutsch JE**, Stern JD. (1995) The Use of an Interactive Computer Program to Teach Assessment and Movement Analysis of the Neurologic Patient, Proceedings 12th International Congress of the World Confederation of Physical Therapy, 347.

**Deutsch, J.** (1994). Speech Breathing and Parkinson's Disease: Abstract and Commentary, Neurology Report. 18, 43-44.

**Deutsch JE** Haas F., Nelson, A. J., Ling, W. & Axen, K. (1994) The Effect of Selective Mental Activity on Resting Breathing Patterns in Healthy Adults. Cardiopulmonary Physical Therapy Journal. 4, 12.

Parnianpour M., Thornby M. A., **Deutsch J**, Forman M. & Rose D. (1992). The Effects of Resistance and Fatigue on the Sagittal Trunk Performance Parameters of Female Dancers. Physical Therapy, 72(supp), S64

**Deutsch JE**, Thornby M. A. (1991). The spinoscope: A discussion of the instrumentation and possible applications for evaluation of lumbar spine function. Physical Therapy, 71 (supp), S13.

**Deutsch J.** (1989) Introduction of a pelvic stabilization device used for trunk control training. Physical Therapy, 69, 440 - 169.

## **SOFTWARE AND APPS**

Huhn K. and Deutsch JE: Virtual PT Clinician

Mark Bayley and Collaborative: VIAThery: Free Evidence Based application for upper limb rehab developed by an international group of experts in stroke rehabilitation. (currently working on fourth revision) <https://www.my-therappy.co.uk/app/via-therapy>

## **PRESENTATIONS (invited)**

### **Professional Presentations (selected)**

Speaker: Workplace Wellness: An Approach to Public Health. *International Conference on Health and Wellbeing (IHW 2025)*, Kanha Shanti Vanam, Hyderabad. Oct 2025

Keynote Speaker: Research Methods in Integrated Health. *International Conference on Health and Wellbeing (IHW 2025)*, Kanha Shanti Vanam, Hyderabad. Oct 2025

Speaker: Interprofessional collaborative practice making a difference – Learning from the specialty groups. World Physiotherapy Congress, Tokyo, Japan June 2025.

Keynote Speaker: Clinical Reasoning and Shared Decision Making in Rehabilitation. International Forum Handan Central Hospital, China July 2024

Keynote Speaker: Yoga Practiced in a Pro Bono Clinic with Persons Post Stroke. Clinical Symposium. Handan Central Hospital China, July 2024

Chair and Speaker: Focused Symposium: Virtual Reality and Serious Games in Neurological Rehabilitation Presented at World Physiotherapy April 2021 (virtual)

Chair and Speaker: Connecting the Global Neurologic Physical Therapy Community. Presented at CSM-APTA Feb. 2021 (virtual)

Speaker and Organizer: Snapshot of Technology and Application to Practice and Teaching: Presented at CSM Feb. 2021 (virtual)

Invited Speaker: Connecting the Global Neurologic Physical Therapy Community Presented at the Japanese Neurophysio Society Meeting, November 2020.

Invited Speaker : Untangling Terminology in VR: ISVR October 2020 (with Mindy Levin) (virtual)

Invited Speaker: Motor Imagery delivered through telehealth presented for ABRAFIN July 2020 (virtual)

Speaker at Capital Health Clinical Innovations in Stroke Care Symposium, Virtual Reality in the Stroke Rehabilitation Setting October 2019

Keynote Speaker: University of Sao Paolo: October 2019

Invited Speaker: University of Colorado Health Sciences Sept 2019

Invited Speaker: Brooks Rehab Center; Keynote Speaker and visitor for the day. March 2019

Keynote Speaker: Cobrafin Congress. VR Reality for Rehabilitation of Mobility and Fitness, Florianapolis, Brazil November, 2018

Workshop Participant: Cobrafim Congress. Best Practices for Teaching. Florianapolis, Brazil November, 2018

Keynote Speaker: IPETH Congress, Motor Imagery and its Application to Stroke Rehabilitation October 2017, Mexico City

Keynote Speaker at ICVR Montreal Canada, June 2017

Speaker: Stroke Conference: Virtual Reality for Rehabilitation of Mobility and Fitness for Persons Post-Stroke. Cornell Weill Medical Center April 2017

Virtual Reality and Serious Games for Rehabilitation of Balance, Mobility and Fitness of Persons Post-Stroke State of the Science Symposium: Virtual Reality Applications for Advancing Rehabilitation, Bethesda, MD April 2017

Plenary Speaker at IVSTEP Columbus, Ohio July 2016

Inaugural Speaker for Kinesiology Program Honors Symposium. Video Games in Rehabilitation. U of Maryland April 2015

Invited Speaker: Keynote speaker at symposium and visitor for the day. University of Florida Feb 2015

PTNow Tools for Advancing Physical Therapist Practice: APTA Annual Meeting and Exposition, June 2012, Tampa, Florida

Game Analysis for Rehabilitation Games for Health June 2012, Boston, MA

NeuroRehab Technology to Promote Plasticity: From Robots to Video Games: Arizona State APTA Meeting, May 2012 Phoenix Arizona \*

Virtual Reality and Interactive Gaming to Improve Mobility Post-Stroke International Stroke Conference, January 2012, New Orleans, LA. \*

Energy Expenditure During Interactive Video Gaming Post-Stroke” Games for Health May 2011

“Virtual Reality and Interactive Video Gaming to Improve Walking Post-Stroke.” Key Note Speaker New Zealand Rehabilitation Meeting, Feb 2011

“Virtual Reality Augmented Rehabilitation” NIH Conference, July 2010

Virtual Reality Augmented Cycling Kit.” Games for Health, Boston, May 2010

“Virtual Reality and Gaming to Improve Mobility and Balance Post-Stroke “Advances in Technology in Rehabilitation sponsored by ASNR Cincinnati, Ohio, May 2009 \*

“Gaming in Physical Therapy” NJAPTA Conference April 2009 \*

“Virtual Reality and Gaming to Improve Mobility and Balance Post-Stroke” Circle of Care: Comprehensive Stroke Care Through the Continuum Conference: Riverview Medical Center NJ March 2009 \*

Virtual Reality and Gaming to Improve Balance and Mobility for People with Neurologic Conditions, MS Center, NY January 2009 \*

“Virtual Reality and Gaming to Improve Mobility and Balance Post-Stroke” Circle of Care: Comprehensive Stroke Care Through the Continuum Conference: Riverview Medical Center NJ March 2009

“Virtual Reality Used to Improve Walking and Mobility After Stroke: From the Lab to the Clinic.” Keynote Speaker XVII Congress International Society of Electromyography and Kinesiology. Ontario Canada June 2008 \*

“Use of Virtual Reality to Improve Walking and Mobility After Brain Injury” NJ Brain Injury Association, Eatontown NJ May 2008 \*

“Virtual Reality Enabled Walking” University of Versailles (LISV), January 2008 \*

“The Importance of the User in VR Technology Development” Innovations in Rehabilitation Technology- Hebrew University- Jerusalem, Dec 2007\*

“VR Approaches to Improve Walking in People Post-Stroke.” Israeli Rehabilitation Conference, Tel Ha Shomer Hospital Tel Aviv, November 2007\*

“The Importance of the User in VR Technology Development” Keynote Speaker World Usability Day- Innovations in Health Care, Princeton, NJ Nov 2007\*

“Rehabilitation Tools for the 21<sup>st</sup> Century” AAPMR Conference, Sept 2007\*

“Combining Robotics and VR to Optimize Treatment Effectiveness” Plenary Speaker: Virtual Reality from Vision to Reality: May 2007. Glenrose Rehab Hospital 2<sup>nd</sup> Virtual Reality Conference, Edmonton, Canada May 2007 \*

“Imagery and Imaging of People Post-Stroke” Stroke Special Interest Group, CSM Feb 2007 \*

“Writing for Publication” CSM Feb, 2007

“Virtual Reality Integrated Tele-rehabilitation System: Patient and Technical Performance” International Workshop on Virtual Reality, NY 2006 \*

“Mental Practice and Physical Therapy” NJAPTA Chapter Meeting May 2006\*

“Neurocurriculum Across the Lifespan, Educating the Next Generation.” CSM 2006 \*

“III Step Revisited” NJapta, October 2005\*

“Validity and Efficacy of Mental Practice for Individuals Post-stroke.” Combined Sections APTA, Feb 2004. \*

“Motor Imagery and Imaging.” Combined Sections APTA, Feb 2004.\*

“Virtual Reality Telerehabilitation: An Inter-disciplinary Collaboration” NJIT Bioengineering Conference, 2003\*

“Measuring Neural Plasticity: From the Ion Channel to the Neural Network” Combined Sections APTA, Feb 2002\*

“Virtual Reality: From the Lab to Improving Function.” Combined Sections APTA, Feb 2002\*

“Teaching Management of Spasticity and Weakness” Combined Sections Meeting APTA, Feb 2001\*

“Researching Complementary Therapies” Graduate Research Colloquium Series, Beaver University, April 2000\*

“Updating Neurologic Curriculum Using a Peer-Review Process” Combined Sections Meeting APTA, Feb. 2000\*

“Researching Complementary Therapies” APTA Scientific Meeting and Exposition, June 1999

“The Effects of Mental Practice on Motor Performance: Behavioral and Functional Imaging (fmri) Studies” Graduate Programs in Health Science, UMDNJ May, 1999 \*

“Structural Integration Used to Improve Mobility and Function in Patients with a Variety of Diagnoses” Center for Complementary and Alternative Medicine, Kessler Medical Rehabilitation Research and Education Corporation, July 1998 \*

“Outcomes of Physical Therapists Practicing Structural Integration (Rolfing). Department of Physical Medicine and Rehabilitation, UMDNJ, June 1998 \*

“Structural Integration Applied to Patients with a Primary Neurologic Diagnosis: Two Case Studies”, NJAPTA, March 1997

"Part to Whole Task Training Applied to the Hemiplegic Patient" JFK Rehabilitation Center, November, 1996 \*

“Clinical Research in Physical Therapy.” NJAPTA, March 1996 \*

"The Effect of Contract-Relax in the Sagittal, and Diagonal PNF Planes and Static Stretch in the Diagonal Planes on Hamstring ROM." Platform Research Presentation, NJAPTA, March 1995

"The Physical Therapy Therapist as a Member of the Work Hardening Team" Special Interest Poster NJAPTA Conference, March 1990

"Use of Leg Raising in Different Planes to Evaluate Pelvic Stabilization Strategies" Special Interest Poster - NJAPTA, March 1989

"Use of a Pelvic Stabilizing Device for Trunk Control Training" Special Interest Poster NJAPTA, March 1988

### **Continuing Education Presentations (selected)**

“Virtual Reality and Serious Games in Physical Therapy” Two day workshop at Louisiana Physical Therapy Association Meeting, August 2019

VR and Serious Games for Rehabilitation of Balance, Mobility and Fitness. Stroke Conference (Plenary Speaker and workshop presenter): Cornell Weill Medical Center April 2017

“Mental Practice Improves Walking for People Post Stroke” Kessler Institute for Rehabilitation, November 2007\*

“Virtual Reality and Rehabilitation.” East Orange VA, April 2004\*

“Virtual Reality and Rehabilitation.” Kessler Institute for Rehabilitation, NJ Oct 2003\*

“Virtual Reality and Walking.” St. Barnabas Hospital, NJ, April 2002\*

“Update on the Management of the Post-Stroke Patient” Rehabilitation Institute of Morristown, June 2000\*

“Virtual Reality and Rehabilitation” APTA Student Conclave, New Jersey, February, 2000 \*

“Methods Used to Study Neuro-plasticity” Seton Hall University, June 1999 \*

“Mental Practice Applied to Patients Post-Stroke” JFK Rehabilitation Center, June 1998 \*

“Treating the Pediatric Client Using PNF” Cerebral Palsy Center of East Orange, May, 1997 \*

"Part to Whole Task Training Applied to the Hemiplegic Patient" JFK Rehabilitation Center, October, 1996 \*

"PNF and Pediatrics." Part 1 and Part 2 Blythedale Hospital, Valhalla, New York, November 1994, February 1995\*

"The Application of PNF to the Management of Myofascial Pain Syndromes" Bronx Veterans Administration Hospital, March, 1994

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## **PATENTS**

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## **INTERVIEWS AND PODCASTS**

[Physical Therapists and Clinical Decision Making: PTJ Podcast with Editor in Chief Allan Jette, March 25, 2022](#)

[Tech Meets Mental Health Interview Series Podcast hosted by Dr. Skip Rizzo: featuring Judy Deutsch November 2021](#)

[Ten Reasons to Start Jumping Rope Again- Prevention Magazine- Dec 2, 2021](#)

[ANPT Inspirational Conversation with Judy Deutsch Oct 20, 2018](#)

[ANPT Inspirational Conversation with Judy Deutsch \(long version\) Oct 20, 2018](#)